SWS:lmp 12/7/05 EWG-097   PATENT

Amendments to the Claims:

1) canceled.

2) canceled.

3) (previously presented): In a system that includes a scanner that includes a down loadable tone map, a scanner driver that includes a calibrated tone map for the scanner and user controls which control modification of said calibrated tone map to generate a user adjusted tone map, said scanner generating an image which has been modified by said user controlled tone map,

an improvement comprising a program to reverse an action on said image of the user modifications to said calibrated tone map.

4) (previously presented): A method of reading a watermark or pattern from a digital image generated by a scanner from a hard-copy image, said digital image most nearly matching said hard-copy image when the image generated by said scanner is modified in accordance with a calibrated tone map, said method comprising:

down-loading into said scanner a user modified tone map,

modifying said image in said scanner with said user modified tone map,

transferring said scanner modified image to a computer communicating with said scanner,

modifying said modified image with a tone map that reverses any differences between said calibrated tone map and said user modified tone map to generate a reverse modified tone map, and

- 2 -

PATENT

reading said watermark or detecting said pattern in said image.

5) (previously presented): A method of controlling operations with data carried in a physical image comprising:

scanning said physical image with a scanner which has an associated calibrated tone map which will compensate for differences between an image generated by said scanner and characteristics of said physical image,

adjusting said calibrated tone map in accordance with user supplied parameters to produce a user adjusted tone map,

applying said user adjusted tone map to said image to produce a user desired image,

applying a tone map to said user desired image which is an inverse of adjustments made to said calibrated tone map to produce said user adjusted tone map, to generate an image that corresponds to the image generated by said scanner that is compensated by said calibrated tone map,

reading at least one characteristic of said image, and

controlling said operations with the result of said reading step.

6) (previously presented): The method recited in claim 5 wherein said reading comprises reading a digital watermark from said image.

7) (previously presented): The method recited in claim 5 wherein said reading comprises detecting a shape in said image.

- 3 -

8) (previously presented): The method recited in claim 5 wherein said reading comprises attempting to both read a digital watermark from said image and to detect a shape in said object.

9) (previously presented): A method of operating on an image comprising:

generating a first digital image from a physical document,

applying a first tone map to said image to generate an adjusted digital image,

applying a second tone map to said adjusted digital image to generate a corrected digital image, said second tone map adapted to reverse changes made to said first digital image that differ from changes specified by reference data, and

operating upon said corrected digital image to determine characteristics of said corrected digital image.

10) (original): The method recited in claim 9 wherein said corrected digital image is operated upon to read a digital watermark from said corrected digital image.

11) (previously presented): The method recited in claim 9 wherein said corrected digital image is operated upon to detect a pattern in said corrected digital image.

12) (previously presented): A system which includes:

a scanner which has an ability to apply a tone map to a scanned image, and a data source which calculates a user adjusted tone map by applying to a calibrated tone map user established parameters, said data source having an ability to down load said user adjusted tone map to said scanner, said scanner adapted to apply said user adjusted tone map to said scanned image to generate an adjusted image,

- 4 -

PATENT

an inverse user adjustment program that generates a corrected image by

applying to said adjusted image a tone map that reverses changes made to said

calibrated tone map to generate said user adjusted tone map, and

a̲ program for detecting characteristics of data in said image.

13) (original): The system recited in claim 12 wherein said program for detecting

characteristics of data in said image comprises a watermark reading program.

14) (original): The system recited in claim 12 wherein said program for detecting

characteristics of data in said image comprises a program for detecting shapes in said

image.

15) (previously presented): A system for operating on an image comprising:

an image acquisition device for generating a first digital image from a physical

document, said image acquisition device applying a first tone map to said first digital

image to generate an adjusted digital image,

an inverse user adjustment program for applying a second tone map to said

adjusted digital image to generate a corrected digital image, said second tone map

adapted to reverse changes made to said first digital image that differ from changes

specified by a calibrated tone map, and

a program which operates upon said corrected digital image to determine

characteristics of said corrected digital image.

16) (original): The system recited in claim 15 wherein said program which

operates upon said corrected image is a watermark reading program.

- 5 -

17) (previously presented): The system recited in claim 15 wherein said program which operates upon said corrected image is a program which detects shapes in said corrected image.

18) (previously presented): A system for operating on an image comprising:

acquisition means for acquiring a first digital image from a physical document, said acquisition means applying a first tone map to said first digital image to generate an adjusted digital image,

means for applying a second tone map to said adjusted digital image to generate a corrected digital image, said second tone map adapted to reverse changes made to said first digital image that differ from changes specified by a calibrated tone map, and

detection means for operating upon said corrected digital image to determine characteristics of said corrected digital image.

19) (original): The system recited in claim 18 wherein said detection means comprises a watermark reading program.

20) (previously presented): The system recited in claim 18 wherein said acquisition means comprises a scanner.

21) (previously presented): The system recited in claim 18 wherein said detection means comprises a program to detect a shape in an image.

22) canceled.

PATENT

23) (previously presented): The system recited in claim 18 wherein said acquisition means comprises a ScanJet 6300c scanner.

24) (canceled).

25) (previously presented): A system which includes:

a TWAIN compliant scanner which has an ability to apply a tone map to a scanned image, and a TWAIN data source which calculates a user adjusted tone map by applying to a calibrated tone map user established parameters, said TWAIN data source having an ability to down load to said scanner said user adjusted tone map, said scanner adapted to apply said user adjusted tone map to said scanned image to generate an adjusted image,

an inverse user adjustment program that generates a corrected image by applying to said adjusted image a tone map that reverses changes made to said calibrated tone map to generate said user adjusted tone map, and

a computer program which examines characteristics of said corrected image.

26) (original): The system recited in claim 25 wherein said program is adapted to read a digital watermark in said image.

- 7 -

27. (previously presented): A method comprising:

receiving image data from an optical scanner, wherein the image data

corresponds to a physical object, and wherein the image data comprises adjustments

reflecting user-dependent factors;

adjusting the image data to counter-balance at least some of the adjustments

attributable to the user-dependent factors, said adjusting yielding adjusted image data;

and

analyzing the adjusted image data to find at least one of machine-readable

indicia and a predetermined pattern.

28. (previously presented): The method of claim 27, wherein the optical scanner

comprises a digital camera.

29. (previously presented): The method of claim 27, wherein the machine-

readable indicia comprises digital watermarking.

30. (previously presented): A method comprising:

receiving a media signal, wherein the media signal comprises artifacts

introduced by a transmission path;

modifying the media signal to reduce or alter the artifacts, wherein said modifying

provides a modified media signal; and

analyzing the modified media signal to obtain a machine-readable code

embedded in the media signal or to identify a predetermined pattern arranged in the

media signal.

- 8 -

31. (previously presented): The method of claim 30, wherein the machine-readable code comprises digital watermarking.

32. (previously presented): The method of claim 30, wherein the transmission path comprises at least one of a printer, scanner and digital camera.

33. (previously presented): The method of claim 30 wherein said modifying comprises at least two different types of modification.

34. (currently amended): The method of claim 30, wherein the media signal <u>further</u> comprises artifacts intentionally introduced by a user, and wherein said modifying reduces the artifacts intentionally introduced by the user.

35. (previously presented): The method of claim 30 wherein the media signal comprises image data.